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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		
10/601,467	06/23/2003		ATTORNEY DOCKET NO.	CONFIRMATION N
• .	00/23/2003	Brian A. Wims	GP-302957 (2750/30)	
759	00 05/24/2004		(=.56/50)	7224
General Motors Corporation Legal Staff, Mail Code 482-C23-B21 300 Renaissance Center			EXAMINER	
			NGUYEN, TUNG X	
P.O. Box 300			ART UNIT	PAPER NUMBER
Detroit, MI 482	265-4714		2829	FILE.
			DATE MAILED: 05/24/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)	
÷	Office Action Summary	10/601,467	WIMS ET AL.	
	omec Action Summary	Examin r	Art Unit	•
	The MAILING DATE AND	Tung X Nguyen	2829	m
	The MAILING DATE of this communication app Period for Reply	ars on the cover she t with the	correspondence addre	ess
	A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period with the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	IS SET TO EXPIRE 3 MONTH 6(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from	(S) FROM mely filed rs will be considered timely.	
	Status			,
	1) Responsive to communication(s) filed on 23 Jun	ne 2003		
		action is non-final.		
}	3) Since this application is in condition for allowand	Ce except for formal matters are	populies t. II	
	closed in accordance with the practice under Ex	Cparte Quavle 1935 C.D. 11 A5	Secution as to the mo	erits is
	Disposition of Claims	, 4, 1000 0.5. 11, 40	00 O.G. 213.	
	4) Claim(s) 11 is/are pending in the application.		•.	
	4a) Of the above claim(s) is/are withdrawr	1 from consideration		
	5) Claim(s) is/are allowed.	i nom consideration.		
	6)⊠ Claim(s) <u>1-11</u> is/are rejected.			
	7) Claim(s) is/are objected to.		•	
- {	8) Claim(s) are subject to restriction and/or e	election requirement		
		orocion requirement.		
	Application Papers			
	9) The specification is objected to by the Examiner.	•	•	
.	10)⊠ The drawing(s) filed on <u>23 June 2003</u> is/are: a)□] accepted or b)⊠ objected to b	v the Examiner	
-	Applicant may not request that any objection to the dra	wing(s) be held in abeyance Sec	37 CED 4 05/->	•
	Replacement drawing sheet(s) including the correction	is required if the drawing(s) is abia	oted to 0 - 07 055 t	121(d)
	11) The oath or declaration is objected to by the Exam	niner. Note the attached Office A	Action or form PTO-1	52.
F	Priority under 35 U.S.C. § 119			
	12) Acknowledgment is made of a claim for foreign pri a) All b) Some * c) None of:	lority under 35 U.S.C. § 119(a)-((d) or (f).	
	1. Certified copies of the priority documents h	avo hoon most and		
	2. Certified copies of the priority documents h	ave been received.		
	3. Copies of the certified copies of the priority	ave been received in Application	1 No	
	3. Copies of the certified copies of the priority application from the International Bureau (F	OCT Puls 17 2(s)	in this National Stag	e /
	* See the attached detailed Office action for a list of t	he certified conice met many		
	in the second of	ne certified copies not received.		•
A	ttachment(s)			
1)	Notice of References Cited (PTO-R92)	4) T 1-4		
2)	Notice of Draftsperson's Patent Drawing Review (PTO-048)	4) Interview Summary (P Paper No(s)/Mail Date.	ГО-413)	•.
)	Paper No(s)/Mail Date	5) Notice of Informal Pate 6) Other:	nt Application (PTO-152)	
U.S. I	Patent and Trademark Office DL-326 (Rev. 1-04) Office Action			

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DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "680" has been used to designate both "an electronic module" and "the mapping box" recited in page 7. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "wireless mapping board 510" recited in pages 5-6. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear that "at least one *mapping board box* including at least one *harness* port" recited in claim 1. Does it show on any drawings? Because of the figures 1, 6 indicate that the electronic modules' box including at least one harness port.

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To apply art, examiner assumes that the electronic modules' box including at least one harness port.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 8-9, 11 is rejected under 35 U.S.C. 102(b) as being anticipated by Etemadpour et al. (u.s.p 5,646,522).

As to claim 8, Etmadpour et al disclose in Fig. 3, the method comprising steps of: a circuit board (64, 52) corresponding to an electronic module (66) via pins; and the circuit board (64, 52) inserting into a pre-wired mapping board box (20).

As to claim 9, Etmadpour et al. disclose in Fig. 3, the steps of receiving the pinned portion of the board (64, 52) into connection port (55) in a mapping board box (20)

As to claim 11, Etmadpour et al disclose in Fig. 3, the system for test an electronic module comprising: means (20) for receiving a circuit board (64, 52); means (30, 32, 50) for communicating between the circuit board receiving means (20) and an electronic module (66).

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7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-7, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art (heretoafter APA) in Fig. 1, and in view of Etemadpour et al. (u.s.p 5,646,522).

As to claims 1, 5, APA in Fig. 1, a system for testing electronic module comprising: at least one electronic modules' box (cover of 130) including at least one harness port (190); at least one harness with a generic harness (120, cable) operably connected at one end to the at least one harness port (190); APA does not disclose a mapping board box. However, Etemadpour et al discloses in Fig. 3, the mapping board box (20) for pre-wiring and receiving the circuit board (64) with a variety of pin configuration, wherein the mapping board box having a plurality of pin receptors (30, 32) in communication with the electronic modules (66), and the circuit board (64). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the system of APA, and proving the mapping board box, as taught by Etemadpour et al for receiving the circuit board (64) with a variety of pin configuration, and easily connecting/removing to the tester while testing the electronic modules.

As to claim 2, Etemadpour et al. disclose in Fig. 3, the dimensions of the at least one mapping board box are sized to fit a printed circuit board.

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As to claims 3-4, 6, APA in view of Etemadpour et al disclose all of the limitations except for the at least one harness port comprises 56 pins, and/or the at least one mapping board box comprises 560 pin receptors. It is a well known that the harness port comprising 56 pins and the mapping board box having 560 pin receptors for transmitting and receiving all of kinds data at the same time. However, it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

As to claim 7, APA disclose the system further comprising an electronic simulators (140 of figure 1).

At to claim 10, Etemadpour et al disclose the steps of a circuit (64, 52) and the module (66) communicates via the mapping board box (22) and a harness connection (55).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ercier et al. (5,406,197), and Mayr et al. (6,677,745) both related to testing electronic modules.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung X Nguyen whose telephone number is (571) 272-1967. The examiner can normally be reached on 8:30am-5:00pm M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TN 5/12/04

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